PART 4

PROPOSAL REQUIREMENTS

WASHINGTON STATE FERRIES

M.V. ELWHA PROPULSION CONTROL SYSTEM REPLACEMENT CONTRACT NO. 00-7171

PROPOSAL REQUIREMENTS

The following is a general description of the proposal requirements of Washington State Ferries' (hereinafter called "WSF") proposed M.V. Elwha Propulsion Control System Contract (hereinafter called the "Contract"). For specific details, all Proposers should refer to the applicable sections of the Request for Proposals ("RFP").

A. CONTENT

Technical Proposal

The Technical Proposal must contain all work and products necessary to accomplish the RFP requirements. The required information and format for the Technical Proposal shall be as specified in the following documents, which are attached hereto and incorporated herein:

16	Exhibit A	Technical Proposal Requirements;
17	Exhibit B	Customer Information Form;
18	Exhibit C	System Reliability Report; and
19	Exhibit D	Technical Proposal Format.

A Proposer may reproduce Exhibit B and/or Exhibit C to accommodate the responses, provided the order and content remains the same. A Proposer should submit only one (1) completed Exhibit B and C form per corporate or agency customer. The responses on the forms should be derived from actual operating personnel, to the maximum extent possible. See the RFP Specifications for more details on the technical requirements.

All Proposers should note the minimum experience requirements in Paragraph 3 of the Management, Organization and Facilities section of Exhibit A.

Financial and Schedule Proposal

The Financial and Schedule Proposal consists of: (i) the Financial and Schedule Proposal form included in this RFP; (ii) any other financial data requested by WSF in the RFP; and (iii) Proposal Security (for final proposal only) in the amount of five percent (5%) of the Total Proposal Price for Award, as specified in this RFP.

B. PRICING

1. General

Proposals shall specify a total, fixed price for the Propulsion Control System (PCS) upgrade on the Vessel, including but not limited to all design, fabrication, installation, testing and regulatory agency certifications for the new PCS; (ii) transport and delivery of the PCS to WSF at a specified location in Puget Sound, Washington; (iii) spare parts and special tools; and (iv) crew training costs. The price shall be specified on the RFP Financial and Schedule Proposal form, and in the Technical Proposal, as may be requested.

Proposal prices shall be inclusive of all costs related to full performance of the RFP and contractual requirements. WSF will make no adjustment in the Total Contract Price due to: (i) inflation occurring during the performance of the Contract Work; (ii) foreign currency exchange rates; (iii) project delays in award of this PCS Replacement Contract; or (iv) project delays in the award of the shipyard installation contract. The pricing terms and conditions are specified in the RFP Financial and Schedule Proposal form and the Contract.

All Proposers shall extend unit prices as required. In the event of an error in the extension of prices, the unit prices shall prevail.

2. <u>Propulsion Control System</u> (including: Spare Parts, Special Tools and Contract Bid Support Package)

Proposals shall specify a total, fixed price for the PCS, including all system design, including preparation of a Contract Bid Support Package to support the shipyards bidding on the separate shipyard installation contract, and other design and engineering work; manufacturing, fabrication and delivery; spare parts and special tools; commissioning, training and testing; project management; local, on-site installation support; and regulatory agency certifications for the new PCS.

a. Spare Parts

Proposals shall include an itemized list of the manufacturer's recommended spare parts available for WSF inventory. The list shall include descriptions, quantities, part numbers and costs (with subtotals and totals) for one (1) complete PCS. For details, see Exhibit A attached hereto. The Spare Parts prices in the Financial and Schedule Proposal form must reflect this itemized list.

For a period of two (2) years after commencement of the Contract, WSF shall have the right to purchase additional spare parts for the prices specified in the successful proposal. Such acquisition shall be made via a Contract Change Order or a WSF Purchase Order.

b **Special Tools**

Proposals shall include an itemized list of the manufacturer's recommended Special Tools available for WSF inventory. The list shall include descriptions, quantities and costs (with subtotals and totals) for one (1) complete PCS. The Special Tools prices in the Financial and Schedule Proposal form must reflect this itemized list.

c. Contract Bid Support (CBS) Package

Proposals shall also specify a fixed price for the CBS Package. See the RFP Technical Specifications for a detailed description of the CBS Package.

3. Optional Modification of Propulsion Switchboard

Proposals shall specify a total price for Optional Modification of Propulsion Switchboard, as specified in Technical Specifications Sec. 5.6.7, in lieu of modifying the Propulsion Switchboard specified in Technical Specifications Sec. 5.6.1 – 5.6.6., to be incorporated by Contract Change Order. The price for the Optional Modification of Propulsion Switchboard shall be specified on the RFP Financial and Schedule Proposal form.

4. Optional Refurbishment of SCR Cooling System

Proposals shall specify a total price for Optional Refurbishment of SCR Cooling System, as specified in Technical Specification Sec. 5.7.4.2, in lieu of refurbishing the SCR Cooling System specified in Technical Specifications Sec. 5.7.4.1., to be incorporated by Contract Change Order. The price for the Optional Refurbishment of SCR Cooling System shall be specified on the RFP Financial and Schedule Proposal form.

1 2

5. Storage and Care of PCS

In the event that the Delivery Date for this PCS Replacement Contract is delayed due to a delay in the shipyard installation contract, the Contractor will be required to store and care for the PCS at the Contractor's cost until a revised Delivery Date is established.

D. PROPOSAL PREPARATION

A Proposer must submit one (1) original and seven (7) copies of its initial and final proposal. Proposals should be presented in loose-leaf, three ring binders, in a neat, orderly and comprehensive manner. The text is to be typewritten on 8.5" x 11" paper, with no less than 1.25 line spacing and no smaller than 12 pitch. Foldouts must not exceed 11" x 17". A reproducible copy of any drawing larger than 11" x 17" shall also be provided. Elaborate brochures or other presentations beyond that sufficient to present a complete and effective proposal are not desired. Elaborate artwork, expensive paper and bindings, and expensive visual or other presentation aids are not necessary.

The proposal categories shall be clearly identified, by tabs or separate binders. Primary categories include: (i) Technical Proposal; and (ii) Financial and Schedule Proposal; and (iii) Proposal Security. The Technical Proposal should be further categorized as required in the content and format Exhibits attached hereto. Refer to the RFP Specifications for additional details.

EXHIBIT A

TECHNICAL PROPOSAL REQUIREMENTS

Exhibit A

TECHNICAL PROPOSAL REQUIREMENTS

This section specifies certain information req	uired to be submitted in the Technical Proposal
for the Propulsion Control System (PCS).	This information is necessary to evaluate the
proposal in accordance with the RFP Proposa	l Evaluation document.

1 2

A. Proposal Prices

Proposers shall submit their PCS proposal prices in accordance with the instructions of RFP Part 7, Financial and Schedule Proposal Form.

B. Reliability and Maintainability

1. Reliability History in Similar Applications

The Proposer shall submit with the proposal, at least three (3) reports from current users of the proposed PCS in a similar application. These reports shall be reviewed to assess the validity of the Proposer's claims with regard to the system's reliability. The form of this report shall be identical to that which is provided as "System Reliability Report" in RFP Part 4. The individuals filing these reports must be English speaking, available for telephone interview, and have detailed knowledge of the system's operation and maintenance. WSF may call some or all of these references as well as any other encountered sources with knowledge of the Proposer's system.

2. <u>Labor and Parts Cost of Maintenance Service Actions</u> and Time Between Actions

Proposers will provide a detailed analysis of all service action required for a period of ten (10) years. This analysis shall include the expected part usage with extended prices from the recommended spare parts list and the amount of labor hours required for each action.

3. <u>Spare Parts Cost</u>

The Proposer shall provide a manufacturer's recommended spare parts list that conforms to the requirements of the RFP Technical Specifications, Volume II, Section 12. The prices shall be those charged if the parts were purchased on the day of Contract award. Any reservations or allowances for system design shall be explicit and priced in the spare parts list.

4. <u>Machinery Arrangement to Support Maintenance</u> and Ease of Required Maintenance

The Proposer shall provide a description of those design aspects that facilitate ease of routine maintenance. The proposer shall address all major components (i.e., AC Modules, DC Modules, Propulsion Motor Drives) and note the lack of vessel - specific required adjustments. On the subcomponent level, the Proposer shall address the degree of interchangeability and commonality within a given system.

5. Training

The Proposer shall submit a syllabus for the complete PCS maintenance training program for the M.V. Elwha crew members. The Proposer shall also include a list of all student training manuals and other documentation. Graduates of the PCS training shall be certified to perform all maintenance including that required by warranty.

6. <u>Testing</u>

The Proposer shall submit with its proposal a statement that it intends to fully comply with the RFP Technical Specifications' requirements for a complete schedule/plan of required factory and on-board testing for each major component, as well as other related requirements. It is not necessary to provide a full Testing Plan in the proposal.

C. <u>Management, Organization and Facilities</u>

1. <u>Project and Design Organizations</u>

The Proposer shall submit a narrative and organization chart for the proposed project organization highlighting its ability to assure that the work is accomplished satisfactorily and within the time allowed. The Proposer shall describe divisions of responsibilities, lines of communications, and the interface between the system contractor and the installation contractor.

2. Facilities

The Proposer shall submit a narrative description and drawing of proposed facility to be used for the manufacturing and testing of the systems. The Proposer shall discuss the physical plant and its ability to support the project work and schedule. The Proposer shall discuss how critical facilities will be made available given other work projected to be in process at this facility.

3. <u>Personnel</u>

The Proposer shall submit the resumes of all personnel that the Proposer considers critical to the successful completion of the project. The Proposer shall provide a narrative explaining why a person is considered critical and indicate alternative personnel that may substitute if necessary.

D. Experience in Performance of Similar Work

The Proposer shall provide verifiable documentation describing previous shipboard installations of electric propulsion control systems. The Proposer shall show a minimum of three (3) years' cumulative experience with design, manufacture, and installation of marine electric drive propulsion systems. The installed systems must be shown to have performed successfully for a period of not less than three (3) consecutive years. Further, the required three (3) years' experience shall be subsequent to January 1, 1998.

The Proposer shall also provide at least three (3) reports from past and current customers for the proposed propulsion control in a comparable use. The form of these reports shall be identical to that which is provided as "Customer Information Form" in RFP Part 4. The point of contacts identified in these forms must be English speaking, available for telephone interview, and have detailed knowledge of the system installation. WSF may call some or all of these references as well as any other encountered sources with knowledge of the Proposer's system.

(END)

EXHIBIT B

CUSTOMER INFORMATION FORM

Exhibit B

CUSTOMER INFORMATION FORM

Propose	er's Company Name:					
Company Name:						
Address:						
State:	State: Zip:					
Phone:						
Name o	of point of contact:					
	n Description:					
Numbe	er of Years @ this Position:					
Telepho	one Number: Times available for telephone contact:					
Type of	f Vessel(s) where system is used:					
	er of Systems purchased:					
Type of	f Service (Tug, Cruise, etc.):					
Were y	ou satisfied with the Proposer's ability to?					
1.	Manage the project?					
2.	Gain approvals from Authoritative Agencies (e.g. USCG)					
3.	Complete on schedule?					
4.	Provide post installation support?					
5.	Provide all required documentation?					
6.	Produce an overall high quality system?					
Explair	n:					
Were y	ou satisfied with the Proposer's ability to?					
1.	. Understand and abide by the contractual clauses?					
2.	Administer the contract without significant change orders?					
3.	Keep you completely aware of all issues that might impede the project?					
4.	4. Provide timely corrective action for critical discrepancies?					
Explair	n:					

EXHIBIT C

SYSTEM RELIABILITY REPORT

Exhibit C

SYSTEM RELIABILITY REPORT

Proposer's Company Name:					
Address:					
State:					
Phone:					
Name of Individual filling out report:					
	Times available for telephone contact:				
•					
Number of Systems @ this Location:					
Certified Rating of Installed Engine(s):					
RPM: (Constant or Indicate the range):					
Number of operating hours on System:					
Are you operating on a Tailored Mainter Schedules?	nance Schedule or per the Standard Published				
Explain:					
Estimate the frequency of down time and Explain:	d number of occurrences due to unscheduled repairs.				

List any unexpected or reoccurring failures with any system parts that required additional maintenance or caused unplanned down time:				
Estimate your vessel duty cycle and report it in number of hours in a 24-hour period.				
List the number of Inspections, Upgrades, and Major Overhauls that have occurred and at how many hours of operation. At Inspections, estimate the number of inspected parts that were replaced.				

EXHIBIT D

REQUIRED TECHNICAL PROPOSAL FORMAT

Exhibit D

REQUIRED TECHNICAL PROPOSAL FORMAT

1	Each	individ	lual pro	posal sh	nall still be organized as follows:
2					
3 4	I.	Donf	owmone	ce Level	la .
5	1.	rem	ormand	ce Level	
6		A.	Prop	ulsion S	System
7			<u>===F</u>	0.0000000000000000000000000000000000000	
8			1	Gene	eral Description
9				a.	Narrative, calculations, tables, sketches, etc. addressing the
10					overall design philosophy and technical reasons for choosing
11					the system concept and how this concept satisfies the
12					requirements of the Technical Specifications, Volume II
13					Sections 5.0 through 5.3.2.5.
14					
15				b.	Narrative, tables, sketches, etc., addressing the issue of
16					availability required by the Technical Specifications, Volume
17					II, Section 6.2.
18					
19				c.	Narrative, tables, sketches, etc., addressing the issue of
20					accessibility required by the Technical Specifications, Volume
21					II, Section 6.3.
22					
23				d.	Provide the System Logic Diagram in Appendix A.
24					
25			2.	Prop	ulsion Switchboard
26				a.	Narrative, calculations, tables, sketches, etc. addressing al
27					requirements of the Technical Specifications, Volume II
28					Section 5.6.
29					
30			3.	SCR	Static Power Converters
31				a.	Narrative, calculations, tables, sketches, etc. addressing al
32					requirements of the Technical Specifications, Volume II
33					Section 5.7.
34					

1			4. Propulsion Controls and Instrumentation
2			a. Narrative, calculations, tables, sketches, etc. addressing all
3			requirements of the Technical Specifications, Volume II,
4			Sections 5.9 and 5.10.
5			
6			5. Function Blocks and PCS I/O
7			a. Narrative, calculations, tables, sketches, etc. addressing all
8			requirements of the Technical Specifications, Volume II,
9			Section 13.0, specifically Drawings 8204-669-099-21
10			Propulsion Control System Functional Block Diagrams and
11			8204-669-099-22 Propulsion Control System (PCS) I/O List.
12			
13		B.	Drawings, Manuals, and Software
14			
15			Narrative, tables, sketches, etc. addressing all requirements of the Technical
16			Specifications, Volume II, Section 8.0, Drawings, Manuals, and Software.
17			2,
18		C.	System Testing
19			<u></u>
20			Narrative, calculations, tables, sketches, etc. addressing all requirements of
21			the Technical Specifications, Volume II, Section 9.0, Testing.
22			β
23		D.	Training
24			
25			Narrative, tables, sketches, etc. addressing all requirements of the Technical
26			Specifications, Volume II, Section 10.0, Training.
27			
28			
29	II.	Mana	agement, Organization and Facilities
30			
31		A.	Project and Design Organizations
32			
33			Narrative required by RFP Part 4, Proposal Requirements, Exhibit A,
34			"Technical Proposal Requirements", Management, Organization and
35			Facilities, Paragraph 1, Project and Design Organizations. The project
36			organization chart shall be submitted in Appendix B.
37			
38		B.	Facilities
39			
40			Narrative required by RFP Part 4, Proposal Requirements, "Technical
41			Proposal Requirements", Management, Organization and Facilities,
42			Paragraph 2, Facilities.
43			

1			
2		C.	Experience in Performance of Similar Work
3			
4			Narrative required by RFP Part 4, Proposal Requirements, Exhibit A,
5			"Technical Proposal Requirements", Management, Organization and
6			Facilities, Paragraph 3, Experience in Performance of Similar Work. The
7			"Customer Information Form" reports shall be provided in Appendix C.
8			
9		D.	<u>Personnel</u>
10			
11			Narrative required by RFP Part 4, Proposal Requirements, Exhibit A,
12			"Technical Proposal Requirements", Management, Organization and
13			<u>Facilities</u> , Paragraph 4, <u>Personnel</u> . The resumes shall be provided in
14			Appendix D.
15			
16	***	041	
17	III.	Other	Factors
18			
19		A.	Operational Cost
20			Nometive also date acquired by DED Dout 4 Droposed Dequirements Exhibit
21 22			Narrative plus data required by RFP Part 4, Proposal Requirements, Exhibit
23			A, "Technical Proposal Requirements", <u>Operational Cost Factors (10 years)</u> . The preliminary recommended system spare parts list shall be
24			provided in Appendix E.
25			provided in Appendix E.
26			
27		B.	Reliability
28		ъ.	Kondonky
29			Narrative plus "System Reliability Reports" required by RFP Part 4, Proposal
30			Requirements, Exhibit A, "Technical Proposal Requirements", Reliability.
31			Reliability reports shall be provided in Appendix F.

1			
2		C. <u>Maint</u>	<u>tainability</u>
3			
4		Narra	tive plus data required by RFP Part 4, Proposal Requirements, Exhibit
5		Α, "	Technical Proposal Requirements", Maintainability. The training
6		docur	mentation shall be provided in Appendix G.
7			
8			
9	IV.	Required Ap	ppendices
10			
11		Appendix A.	System Logic Diagrams
12			
13		Appendix B.	Project Organization Chart
14			
15		Appendix C.	Customer Information Forms
16		• •	
17		Appendix D.	Resumes
18		11	
19		Appendix E.	Recommended System Spare Parts Lists
20		11	
21		Appendix F.	System Reliability Reports
22		rr	The state of the s
23		Appendix G.	Training Documentation
		11	

(**END**)